

From the INTERNATIONAL BUREAU

**PCT**

NOTIFICATION CONCERNING  
TRANSMITTAL OF COPY OF INTERNATIONAL  
APPLICATION AS PUBLISHED OR REPUBLISHED

To:

SAMUEL, Richard, I.  
Goodwin Procter LLP  
103 Eisenhower Parkway  
Roseland, NJ 07068  
ETATS-UNIS D'AMERIQUE

Date of mailing (*day/month/year*)  
21 October 2004 (21.10.2004)

Applicant's or agent's file reference  
102907-438-PCT

**IMPORTANT NOTICE**

International application No.  
PCT/US2004/010222

International filing date (*day/month/year*)  
02 April 2004 (02.04.2004)

Priority date (*day/month/year*)  
02 April 2003 (02.04.2003)

Applicant

PLANETII USA INC.

The International Bureau transmits herewith the following documents:



copy of the international application as published by the International Bureau on 21 October 2004 (21.10.2004) under  
No. WO 2004/090834



copy of international application as republished by the International Bureau on under  
No. WO

For an explanation as to the reason for this republication of the international application, reference is made to INID codes (15), (48)  
or (88) (*as the case may be*) on the front page of the attached document.

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Authorized officer

Simin Baharlou

Facsimile No.+41 22 740 14 35

Facsimile No.+41 22 338 71 30

# PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:  
RICHARD I. SAMUEL  
GOODWIN PROCTER LLP  
103 EISENHOWER PARKWAY  
ROSELAND, NJ 07068

## PCT

NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL SEARCH REPORT AND  
THE WRITTEN OPINION OF THE INTERNATIONAL  
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing (day/month/year)	22 DEC 2004
Applicant's or agent's file reference 102907-438-PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US04/10222	International filing date (day/month/year) 02 April 2004 (02.04.2004)
Applicant PLANETII USA INC.	

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.
- Filing of amendments and statement under Article 19:**  
The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):
- When?** The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.
- Where?** Directly to the International Bureau of WIPO, 34 chemin des Colombettes  
1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35
- For more detailed instructions, see the notes on the accompanying sheet.**
2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.
4. **Reminders**
- Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.
- The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.
- Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.
- In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.
- See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Authorized officer Derris Banks <i>J. Husley for</i> Telephone No. (703) 308-1148
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Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 102907-438-PCT	<b>FOR FURTHER ACTION</b>	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US04/10222	International filing date ( <i>day/month/year</i> ) 02 April 2004 (02.04.2004)	(Earliest) Priority Date ( <i>day/month/year</i> ) 02 April 2003 (02.04.2003)
Applicant PLANETII USA INC.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the Report**

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐

the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐

contained in the international application in written form.

☐

filed together with the international application in computer readable form.

☐

furnished subsequently to this Authority in written form.

☐

furnished subsequently to this Authority in computer readable form.

☐

the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐

the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the title,

☒

the text is approved as submitted by the applicant.

☐

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒

the text is approved as submitted by the applicant.

☐

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No. 11

☒

as suggested by the applicant.

☐

None of the figures

☐

because the applicant failed to suggest a figure.

☐

because this figure better characterizes the invention.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/10222

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G09B 11/00

US CL : 434/323

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 434/322,323,350,353,307R; 706/45;

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
US-PGPUB,EPO,JPO,USPAT-adaptive testing, interactive training, hueristic, assessments and adaptive

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,120,300 A (HO ET AL) 19 September 2000 (19.09.2000), Figures 1, 5-7.	1
Y	US 5,657,256 A (SWANSON et al) 12 August 1997 (12.08.1997), Figures 1(a-e); column 9, line 10+ .	1
A	EP 0 553 674 A2 (EDUCATIONAL TESTING SERVICE) 04 August 1993 (04.08.1993), entire document.	1-6

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

22 July 2004 (22.07.2004)

Date of mailing of the international search report

**22 DEC 2004**

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Derris Banks *J. Hurley*

Telephone No. (703) 308-1148

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:  
RICHARD I. SAMUEL  
GOODWIN PROCTER LLP  
103 EISENHOWER PARKWAY  
ROSELAND, NJ 07068

## PCT

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing (day/month/year) <b>22 DEC 2004</b>	
<b>FOR FURTHER ACTION</b> See paragraph 2 below	
Applicant's or agent's file reference <b>102907-438-PCT</b>	
International application No. <b>PCT/US04/10222</b>	International filing date (day/month/year) <b>02 April 2004 (02.04.2004)</b>
Priority date (day/month/year) <b>02 April 2003 (02.04.2003)</b>	
International Patent Classification (IPC) or both national classification and IPC <b>IPC(7): G09B 11/00 and US Cl.: 434/323</b>	
Applicant <b>PLANETII USA INC.</b>	

**1. This opinion contains indications relating to the following items:**

- ☒ Box No. I      Basis of the opinion
- ☐ Box No. II      Priority
- ☐ Box No. III      Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV      Lack of unity of invention
- ☒ Box No. V      Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI      Certain documents cited
- ☐ Box No. VII      Certain defects in the international application
- ☐ Box No. VIII      Certain observations on the international application

**2. FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

**3. For further details, see notes to Form PCT/ISA/220.**

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Authorized officer Derris Banks <i>J. Hurley</i> Telephone No. (703) 308-1148
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**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/US04/10222

**Box No. I Basis of this opinion**

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This opinion has been established on the basis of a translation from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

☐ a sequence listing

☐ table(s) related to the sequence listing

b. format of material

☐ in written format

☐ in computer readable form

c. time of filing/furnishing

☐ contained in international application as filed.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/US04/10222

**Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Claims <u>1-6</u>	YES
	Claims <u>NONE</u>	NO
Inventive step (IS)	Claims <u>2-6</u>	YES
	Claims <u>1</u>	NO
Industrial applicability (IA)	Claims <u>1-6</u>	YES
	Claims <u>NONE</u>	NO

**2. Citations and explanations:**

Claim 1 lacks an inventive step under PCT Article 33(3) as being obvious over Ho et al (US 6,120,300) in view of Swanson et al (US 5,657,256). Ho et al shows a computer based application which includes a database of hierarchal topics each having a plurality of questions associated therewith, wherein each of the questions has an assigned difficulty level. These are defined as the "line items". The Ho et al system is an adaptive system that presents questions and topics to a user based upon prior perform and a general assessment, see Figures 5-8. The "water level" of the claim is the same as the proficiency level of Ho et al or Swanson et al. Further the Ho et al system determine the topic (line item) that is to be presented to the user and determines a question related to the topic to the user, see col. 10; 34-64. Ho et al does not specifically teach that the system uses a heuristic model to select either the questions or the topic. Swanson et al teaches an adaptive testing system which employees a heuristic model, see col. 9: 10+.

Claims 1-6 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

10/551663

JCO9 Rec'd PCT/PTO 30 SEP 2005

RECEIVED IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : Not yet assigned  
First Named Inventor : Lewis Cheng et al.  
Attorney Docket No. : 102907-438-NP  
Title : ADAPTIVE ENGINE LOGIC USED IN TRAINING  
ACADEMCI PROFICIENCY

The U.S. Patent & Trademark Office stamp herein acknowledges receipt of the following:

1. Transmittal Letter To The United States Designated/Elected Office (DO/EO/US) Concerning A Filing Under 35 U.S.C. 371;
2. A Second Copy Of The Published International Application Under 35 U.S.C. 154(d)(4);
3. International Search Report;
4. Certificate of Express Mailing; and
5. Return Receipt Postcard.

Date Mailed: September 30, 2005  
Express Mail Label: ED487794639US